cket No.: 18202-020001 / 1088 Amendment & Response

Applicant: Lin Zhi et al. Serial No.: 10/684,229 : October 10, 2003 Filed

AMENDMENTS TO THE CLAIMS:

Claims 2-16, 18-28 and 30-47 are pending in this application. Claims 1, 17 and 29 are cancelled herein without prejudice or disclaimer. Claims 2-6, 8-13, 18-22, 24-28, 30, 33-35, 41 and 43 are amended herein. New claims 44-47 are added herein. This listing of claims will replace all prior versions, and listings of claims, in the application.

LISTING OF CLAIMS:

- 1. (Cancelled).
- 2. (Currently amended) A compound according to claim 1 any one of claims 44, 45 or 46, wherein R¹ is selected from the group of hydrogen, C₁–C₄ alkyl, COR¹¹, SO₂R¹¹, and CONR¹¹R¹².
- 3. (Currently amended) A compound according to claim 1 any one of claims 44, 45 or 46, wherein R² and R³ each independently is selected from the group of C_1 – C_4 alkyl, and C_1 – C_4 haloalkyl.
- 4. (Currently amended) A compound according to claim 1 any one of claims 44, 45 or 46, wherein:

R⁵ and R⁷ taken together form a bond;

R⁴ and R⁶ each independently is selected from the group of hydrogen, F, Cl, Br, CN, OR^{11} , C_1-C_4 alkyl, and C_1-C_4 haloalkyl.

5. (Currently amended) A compound according to claim-1 any one of claims 44, 45 or 46, wherein:

R⁶ and R⁷ taken together are selected from the group of methylidene, and carbonyl;

R⁴ and R⁵ each independently is selected from the group of hydrogen, F, and C₁-C₄ alkyl.

- 6. (Currently amended) A compound according to claim-1 any one of claims 44, 45 or 46, wherein R⁸ through R¹⁰ each independently is selected from the group of hydrogen, F, Cl, Br, NO₂, CN, OR¹¹, SR¹¹, C₁–C₆ alkyl, C₁–C₆ heteroalkyl, and C₁– C₆ haloalkyl.
- 7. (Original) A compound according to claim 6, wherein R⁸ through R¹⁰ each independently is selected from the group of hydrogen, F, and OR¹¹.

Attorney's socket No.: 18202-020001 / 1088
Amendment & Response

Applicant: Lin Zhi et al.
Serial No.: 10/684,229
Filed: October 10, 2003

8. (Currently amended) A compound according to claim 1 any one of claims 44, 45 or 46, wherein R¹¹ through R¹² each independently is selected from the group of hydrogen, and C₁–C₄ alkyl.

9. (Currently amended) A compound according to claim 1, wherein of the formula:

wherein:

R¹ is selected from the group of hydrogen, C₁–C₄ alkyl, C₁–C₄ haloalkyl, C₁–C₄ heteroalkyl, COR¹¹, CO₂R¹¹, SO₂R¹¹, and CONR¹¹R¹²;

 R^2 and R^3 each independently is selected from the group of hydrogen, C_1 – C_6 alkyl, and C_1 – C_6 haloalkyl; or

R² and R³ taken together form a cycloalkyl ring of from three to twelve carbons;

R⁴ through R⁷ each independently is selected from the group of hydrogen, F, CI, Br, CN, OR¹¹, C₁–C₄ alkyl, C₁–C₄ haloalkyl, and C₁–C₄ heteroalkyl; or

R⁵ and R⁷ taken together form a bond; or

R⁶ and R⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, di-substituted methylidene and carbonyl;

R⁸ through R¹⁰ each independently is selected from the group of hydrogen, F, CI, Br, I, NO₂, CN, OR¹¹, NR¹¹R¹², SR¹¹, COR¹¹, CO₂R¹¹, CONR¹¹R¹², C₁–C₈ alkyl, C₁–C₈ heteroalkyl, C₁–C₈ haloalkyl, allyl, C₂–C₈ alkenyl and C₂–C₈ alkynyl;

 R^{11} and R^{12} each is independently selected from the group of hydrogen, C_1 – C_4 alkyl, C_1 – C_4 heteroalkyl, and C_1 – C_4 haloalkyl;

R¹³ is hydrogen;

R¹⁴ and R¹⁶ taken together form a bond or "-O-" bridge;

 R^{15} , R^{17} , R^{18} , R^{19} , R^{20} each independently is selected from the group of hydrogen, F, Cl, C_1 – C_4 alkyl, and C_1 – C_4 haloalkyl.

Attorney's ... cket No.: 18202-020001 / 1088

Applicant: Lin Zhi et al.

Serial No.: 10/684,229

Filed: October 10, 2003

Amendment & Response

R²¹ is hydrogen; and

n is 0, 1, 2, or 3;

or a pharmaceutically acceptable salt or prodrug thereof.

10. (Currently amended) A compound according to claim 1, wherein of the formula:

wherein:

R¹ is selected from the group of hydrogen, C₁–C₄ alkyl, C₁–C₄ haloalkyl, C₁–C₄ heteroalkyl, COR¹¹, CO₂R¹¹, SO₂R¹¹, and CONR¹¹R¹²;

 R^2 and R^3 each independently is selected from the group of hydrogen, C_1 – C_6 alkyl, and C_1 – C_6 haloalkyl; or

R² and R³ taken together form a cycloalkyl ring of from three to twelve carbons;

 R^4 through R^7 each independently is selected from the group of hydrogen, F, CI, Br, CN, OR^{11} , C_1 – C_4 alkyl, C_1 – C_4 haloalkyl, and C_1 – C_4 heteroalkyl; or

R⁵ and R⁷ taken together form a bond; or

R⁶ and R⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, di-substituted methylidene and carbonyl;

R⁸ through R¹⁰ each independently is selected from the group of hydrogen, F, CI, Br, I, NO₂, CN, OR¹¹, NR¹¹R¹², SR¹¹, COR¹¹, CO₂R¹¹, CONR¹¹R¹², C₁–C₈ alkyl, C₁–C₈ heteroalkyl, C₁–C₈ haloalkyl, allyl, C₂–C₈ alkenyl and C₂–C₈ alkynyl;

 R^{11} and R^{12} each is independently selected from the group of hydrogen, C_1 – C_4 alkyl, C_1 – C_4 heteroalkyl, and C_1 – C_4 haloalkyl;

R¹³ is hydrogen;

 R^{14} , R^{15} , R^{18} , R^{19} , R^{20} each independently is selected from the group of hydrogen, F, Cl, C_1 – C_4 alkyl, and C_1 – C_4 haloalkyl.

Attorney's socket No.: 18202-020001 / 1088

Applicant: Lin Zhi et al.
Serial No.: 10/684,229
Filed: October 10, 2003

Amendment & Response

R¹⁶ and R¹⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, and di-substituted methylidene;

R²¹ is hydrogen; or

R²¹ and R²⁰ taken together form a bond;

n is 0, 1, 2, or 3;

or a pharmaceutically acceptable salt or prodrug thereof.

11. (Currently amended) A compound according to claim 1, wherein of the formula:

wherein:

R¹ is selected from the group of hydrogen, C₁–C₄ alkyl, C₁–C₄ haloalkyl, C₁–C₄ heteroalkyl, COR¹¹, CO₂R¹¹, SO₂R¹¹, and CONR¹¹R¹²;

 R^2 and R^3 each independently is selected from the group of hydrogen, C_1 – C_6 alkyl, and C_1 – C_6 haloalkyl; or

R² and R³ taken together form a cycloalkyl ring of from three to twelve carbons;

R⁴ through R⁷ each independently is selected from the group of hydrogen, F, Cl, Br, CN, OR¹¹, C₁–C₄ alkyl, C₁–C₄ haloalkyl, and C₁–C₄ heteroalkyl; or

R⁵ and R⁷ taken together form a bond; or

R⁶ and R⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, di-substituted methylidene and carbonyl;

R⁸ through R¹⁰ each independently is selected from the group of hydrogen, F, CI, Br, I, NO₂, CN, OR¹¹, NR¹¹R¹², SR¹¹, COR¹¹, CO₂R¹¹, CONR¹¹R¹², C₁–C₈ alkyl, C₁–C₈ heteroalkyl, C₁–C₈ haloalkyl, allyl, C₂–C₈ alkenyl and C₂–C₈ alkynyl;

 R^{11} and R^{12} each is independently selected from the group of hydrogen, C_1 – C_4 alkyl, C_1 – C_4 heteroalkyl, and C_1 – C_4 haloalkyl;

R¹³ is hydrogen;

Applicant: Lin Zhi et al.

Serial No.: 10/684,229 Filed: October 10, 2003 Attorney's ocket No.: 18202-020001 / 1088
Amendment & Response

 R^{14} , R^{15} , R^{17} , R^{20} each independently is selected from the group of hydrogen, F, Cl, C_1 – C_4 alkyl, and C_1 – C_4 haloalkyl R^{16} and R^{18} taken together form a bond when n is 1;

R¹⁶ and R¹⁹ taken together form a bond when n is 0;

R²¹ is hydrogen; and

n is 0, 1, 2, or 3;

or a pharmaceutically acceptable salt or prodrug thereof.

- 12. (Currently amended) A compound according to claim 1, wherein said compound is selected from the group of:
- (±)-(5/,1'/)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **24**);
- (\pm) -(5l,1'u)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (compound **25**);
- (+)-(5*l*,1'*l*)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **27**);
- (–)-(5*l*,1'*l*)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **28**);
- (±)-(5*l*,1'*l*)-5-(3-methyl-2-cyclohexenyl)-9-hydroxy-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **29**);
- (\pm) -(5l,1'u)-5-(3-methyl-2-cyclohexenyl)-9-hydroxy-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **30**);
- (+)-(5*l*,1'*l*)-5-(3-methyl-2-cyclohexenyl)-9-hydroxy-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **32**);
- (–)-(5/,1'/)-5-(3-methyl-2-cyclohexenyl)-9-hydroxy-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **33**);
- (±)-(5l,1'l)-5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **34**);
- (\pm) -(5l,1'u)-5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **35**);
- (+)-(5*l*,1'*l*)-5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **37**);

Attorney's cket No.: 18202-020001 / 1088
Amendment & Response

Applicant: Lin Zhi et al.
Serial No.: 10/684,229
Filed: October 10, 2003

(-)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **38**);

- (\pm) -(5l, 1'l)-5-(3-methyl-2-cyclohexenyl)-9-methoxy-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (compound **39**);
- (\pm) -(5l,1'l)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2-dimethyl-5H-chromeno[3,4-f]quinoline (compound 41);
- (\pm) -(5l,1'u)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2-dimethyl-5H-chromeno[3,4-f]quinoline (compound **42**);
- (±)-(5*I*, 1'*I*)-5-(3-methyl-2-cyclopentenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **44**);
- (\pm) -(5l,1'u)-5-(3-methyl-2-cyclopentenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (compound **45**);
- (\pm) -(5l,1'l)-5-(3,5,5-trimethyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (compound **47**);
- (\pm) -(5l,1'u)-5-(3,5,5-trimethyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **48**);
- (±)-(51,1'1)-5-(3-methyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **50**);
- (\pm) -(5l,1'u)-5-(3-methyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **51**);
- (±)-5-(3-methyl-3-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (compound **52**);
- (±)-5-(2-cyclopenta-1,3-dienyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **53**);
- (\pm) -(5l,1'l)-5-(3-ethyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **55**);
- (\pm) -(5l, 1'u)-5-(3-ethyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **56**);
- (\pm) -(5l,1'l)-5-(3-methyl-2-cyclohexenyl)-7-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (compound **58**);
- (\pm) -(5l,1'u)-5-(3-methyl-2-cyclohexenyl)-7-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (compound **59**);

Attorney's Jocket No.: 18202-020001 / 1088
Amendment & Response

Applicant: Lin Zhi et al.

Serial No.: 10/684,229

Filed: October 10, 2003

(±)-(5l,1'l)-5-(3-ethyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **61**);

- (\pm) -(5l,1'l)-5-(3-ethylidenecyclohexyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (compound **62**);
- (\pm) -(5l,1'l)-5-(3-methyl-3-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **63**);
- (\pm) -(5l,1'l)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-8-methoxy-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **64**);
- (\pm) -(5l,1'u)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-8-methoxy-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **65**);
- (\pm)-(5l, 1'l)-5-(2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **67**);
- (\pm) -(5l,1'u)-5-(2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **68**);
- (±)-5-(1-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **69**);
- (±)-(5l,1'l)-5-(2,3-dimethyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **71**);
- (+)-(5/,1'/)-5-(2,3-dimethyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **73**);
- (–)-(5/,1'/)-5-(2,3-dimethyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **74**);
- (\pm) -(5l,1'l)-5-(2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **75**);
- (\pm) -(5l,1'u)-5-(2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **76**);
- (±)-(5*l*,1'*l*)-5-(2-cyclohexenyl)-7,9-difluoro-1,2,3,4-tetrahydro-2,2-dimethyl-4-methylidene-5*H*-chromeno[3,4-*f*]quinoline (compound **77**);
- (±)-(5*l*,1'*l*)-5-(2-methylidenecyclohexyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **79**);
- (\pm) -(5l,1'u)-5-(2-methylidenecyclohexyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (compound **80**);

Attorney's socket No.: 18202-020001 / 1088
Amendment & Response

Applicant: Lin Zhi et al.

Serial No.: 10/684,229

Filed: October 10, 2003

(±)-(5/,1'/)-5-(2-oxocyclohexyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (compound **81**);

- (\pm) -(5l,1'u)-5-(2-oxocyclohexyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound 82);
- (±)-(5/,1'/)-5-(3-methyl-2-cyclohexenyl)-9-methoxy-1,2-dihydro-1,2,2,4-tetramethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **83**);
- (±)-5-(2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]-quinoline (compound **84**);
- (\pm)-(5I, 1'I)-5-(2,3-dimethyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **85**);
- (±)-5-(3-methylidene-cyclohexyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **87**);
- (\pm)-(5l, 1'u)-5-(3-ethylidenecyclohexyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (compound **88**);
- (±)-(5l,1'l)- 5-(2-cycloheptenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **89**);
- (±)-(51,1'1)- 5-(2-cyclooctenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-f]quinoline (Compound **91**);
- (\pm) -(5l,1'u)- 5-(2-cyclooctenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (Compound **92**);
- (\pm)-(5*l*,1'*l*)- 5-(2,3-epoxy-3-methylcyclohexyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **94**);
- (±)-(5l,1'l)- 5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2,3,4-tetrahydro-2,2-dimethyl-4-methylene-5*H*-chromeno[3,4-*f*]quinolin-3-ol (Compound **95**);
- (\pm)-(5*l*,1'*l*)- 5-(2,3-epoxy-2,3-dimethylcyclopentyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **96**);
- (\pm)-(5l,1'u)- 5-(2,3-epoxy-3-methylcyclohexyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (Compound **97**); and
- (\pm)-(5l,1'l)- 5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2,3,4-tetrahydro-2,2-dimethyl-5*H*-chromeno[3,4-*f*]quinolin-4-one (Compound **98**).
- 13. (Currently amended) A compound according to claim 1, wherein said compound is selected from the group of:

Attorney's Socket No.: 18202-020001 / 1088
Amendment & Response

Applicant: Lin Zhi et al.
Serial No.: 10/684,229
Filed: October 10, 2003

(±)-(5/,1'/)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **24**);

(-)-(5/,1'/)-5-(3-methyl-2-cyclohexenyl)-9-fluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **28**);

(--)-(5*l*, 1'*l*)-5-(3-methyl-2-cyclohexenyl)-9-hydroxy-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **33**);

 (\pm) -(5l,1'l)-5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **34**);

 (\pm) -(5l,1'u)-5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **35**);

(-)-(51,1'1)-5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **38**);

 (\pm) -(5l,1'l)-5-(3-methyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **50**);

 (\pm) -(5l,1'u)-5-(3-methyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **51**);

 (\pm) -(5l,1'l)-5-(2,3-dimethyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5H-chromeno[3,4-f]quinoline (compound **71**);

(-)-(5*l*,1'*l*)-5-(2,3-dimethyl-2-cyclopentenyl)-7,9-difluoro-1,2-dihydro-2,2,4-trimethyl-5*H*-chromeno[3,4-*f*]quinoline (compound **74**); and

 (\pm) -(5l,1'l)- 5-(3-methyl-2-cyclohexenyl)-7,9-difluoro-1,2,3,4-tetrahydro-2,2-dimethyl-5H-chromeno[3,4-f]quinolin-4-one (Compound **98**).

14. (Original) A compound of the formula:

wherein:

 R^2 and R^3 each independently is selected from the group of hydrogen, C_1 – C_4 alkyl, and C_1 – C_4 haloalkyl;

 R^6 is selected from the group of hydrogen, F, Cl, Br, CN, OR^{11} , C_1 – C_4 alkyl, and C_1 – C_4 haloalkyl;

 R^8 and R^{10} each independently is selected from the group consisting of hydrogen, F, Cl, Br, CN, OR^{11} , $NR^{11}R^{12}$, SR^{11} , COR^{11} , C_1 – C_4 alkyl, C_1 – C_4 heteroalkyl, C_1 – C_4 haloalkyl, allyl, and C_2 – C_4 alkenyl;

 R^{11} and R^{12} each is independently selected from the group of hydrogen, C_1 – C_4 alkyl, C_1 – C_4 heteroalkyl, and C_1 – C_4 haloalkyl;

R¹⁴, R¹⁵, R¹⁸, R²², R²³, R²⁴ each independently is selected from the group of hydrogen, F, Cl, OR¹¹, C₁–C₄ alkyl, C₁–C₄ haloalkyl, and C₁–C₄ heteroalkyl;

R²², R²³, R²⁴ together consists of not more than 3 carbon atoms;

R¹⁶ taken together with one of R¹⁴, R¹⁸, and R²² form a bond or "-O-" bridge; n is 0, 1, 2, or 3;

or a pharmaceutically acceptable salt or prodrug thereof.

15. (Original) A compound according to claim 14, wherein of the formula:

wherein:

R² and R³ each independently is selected from the group of C₁–C₄ alkyl;

R⁶ is selected from the group of F, Cl, Br, C₁–C₄ alkyl, and C₁–C₄ haloalkyl;

 R^8 and R^{10} each independently is selected from the group of hydrogen, F, Cl, Br, CN, OR^{11} , C_1 – C_4 alkyl, and C_1 – C_4 haloalkyl;

 \mbox{R}^{11} and \mbox{R}^{12} each is independently selected from the group of hydrogen, $\mbox{C}_{1}\!\!-\!\!$ \mbox{C}_{4} alkyl;

 R^{14} , R^{15} , R^{18} , R^{22} , R^{23} , R^{24} each independently is selected from the group of hydrogen, F, C₁–C₄ alkyl;

Applicant: Lin Zhi et al.

Serial No.: 10/684,229 Filed: October 10, 2003 Attorney's Socket No.: 18202-020001 / 1088
Amendment & Response

R¹⁶ taken together with one of R¹⁴, R¹⁸, and R²² form a bond or "–O–" bridge; R²², R²³, R²⁴ together consists of not more than 3 carbon atoms; and n is 0, 1, or 2;

or a pharmaceutically acceptable salt or prodrug thereof.

16. (Original) A compound according to claim 15, wherein R² and R³ each independently is CH₃;

R⁶ is selected from the group of F, Cl, Br, CH₃, CH₂CH₃, and CF₃;

R⁸ is hydrogen or F;

R¹⁰ is selected from the group of hydrogen, F, Cl, Br, CN, OH, OCH₃, CH₃, CH₂CH₃, and CF₃;

R¹⁴ and R¹⁶ taken together form a bond or "–O–" bridge;

 R^{15} , R^{18} , R^{22} , R^{23} , and R^{24} each independently is hydrogen or CH_3 .

- 17. (Cancelled).
- 18. (Currently amended) A pharmaceutical composition according to claim 47 any one of claims 47, 48 or 49, wherein R¹ is selected from the group of hydrogen, C₁–C₄ alkyl, COR¹¹, SO₂R¹¹, and CONR¹¹R¹².
- 19. (Currently amended) A pharmaceutical composition according to elaim 17 any one of claims 47, 48 or 49, wherein R^2 and R^3 each independently is selected from the group of C_1 – C_4 alkyl, and C_1 – C_4 haloalkyl.
- 20. (Currently amended) A pharmaceutical composition according to claim 17 any one of claims 47, 48 or 49, wherein

R⁵ and R⁷ taken together form a bond;

 R^4 and R^6 each independently is selected from the group of hydrogen, F, Cl, Br, CN, OR^{11} , C_1 – C_4 alkyl, and C_1 – C_4 haloalkyl.

21. (Currently amended) A pharmaceutical composition according to claim 17 any one of claims 47, 48 or 49, wherein

R⁶ and R⁷ taken together are selected from the group of methylidene, and carbonyl;

 R^4 and R^5 each independently is selected from the group of hydrogen, F, and $C_1^-\!-\!C_4$ alkyl.

22. (Currently amended) A pharmaceutical composition according to claim 47 any one of claims 47, 48 or 49, wherein R⁸ through R¹⁰ each independently is

Attorney's Bocket No.: 18202-020001 / 1088
Amendment & Response

Applicant: Lin Zhi et al.

Serial No.: 10/684,229

Filed: October 10, 2003

selected from the group of hydrogen, F, Cl, Br, NO_2 , CN, OR^{11} , SR^{11} , C_1 – C_6 alkyl, C_1 – C_6 heteroalkyl, and C_1 – C_6 haloalkyl.

- 23. (Original) A pharmaceutical composition according to claim 22, wherein R⁸ through R¹⁰ each independently is selected from the group of hydrogen, F, and OR¹¹.
- 24. (Currently amended) A pharmaceutical composition according to claim 17 any one of claims 47, 48 or 49, wherein R¹¹ through R¹² each independently is selected from the group of hydrogen, and C₁–C₄ alkyl.
- 25. (Currently amended) A pharmaceutical composition according to claim 17, wherein

composition, comprising a pharmaceutically acceptable carrier and a compound of formula:

$$\begin{array}{c}
R^{19} \\
R^{20} \\
R^{18} \\
R^{17} \\
R^{16} \\
R^{15} \\
R^{14} \\
R^{14} \\
R^{13} \\
R^{7} \\
R^{6} \\
R^{5} \\
R^{4} \\
R^{3} \\
R^{1} \\
R^{2}
\end{array}$$
(I)

wherein:

R¹ is selected from the group of hydrogen, C₁–C₄ alkyl, C₁–C₄ haloalkyl, C₁–C₄ heteroalkyl, COR¹¹, CO₂R¹¹, SO₂R¹¹, and CONR¹¹R¹²;

 R^2 and R^3 each independently is selected from the group of hydrogen, C_1-C_6 alkyl, and C_1-C_6 haloalkyl; or

R² and R³ taken together form a cycloalkyl ring of from three to twelve carbons;

R⁴ through R⁷ each independently is selected from the group of hydrogen, F, CI, Br, CN, OR¹¹, C₁–C₄ alkyl, C₁–C₄ haloalkyl, and C₁–C₄ heteroalkyl; or

R⁵ and R⁷ taken together form a bond; or

R⁶ and R⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, di-substituted methylidene and carbonyl;

Applicant: Lin Zhi et al.

Serial No.: 10/684,229 Filed

: October 10, 2003

Attorney's Bocket No.: 18202-020001 / 1088 Amendment & Response

R⁸ through R¹⁰ each independently is selected from the group of hydrogen, F, CI, Br, I, NO₂, CN, OR¹¹, NR¹¹R¹², SR¹¹, COR¹¹, CO₂R¹¹, CONR¹¹R¹², C₁–C₈ alkyl, C_1-C_8 heteroalkyl, C_1-C_8 haloalkyl, allyl, C_2-C_8 alkenyl and C_2-C_8 alkynyl;

R¹¹ and R¹² each is independently selected from the group of hydrogen, C₁- C_4 alkyl, C_1-C_4 heteroalkyl, and C_1-C_4 haloalkyl;

R¹³ is <u>hydrogen</u>;

R¹⁴ and R¹⁶ taken together form a bond or "-O-" bridge;

R¹⁵, R¹⁷, R¹⁸, R¹⁹, R²⁰ each independently is selected from the group of hydrogen, F, Cl, C₁–C₄ alkyl, and C₁–C₄ haloalkyl;

R²¹ is hydrogen; or

R²¹ and R²⁰ taken together form a bond; and

n is 0, 1, 2, or 3;

or a pharmaceutically acceptable salt or prodrug thereof.

26. (Currently amended) A pharmaceutical composition according to claim 17, wherein composition, comprising a pharmaceutically acceptable carrier and a compound of formula:

wherein:

R¹ is selected from the group of hydrogen, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₁-C₄ heteroalkyl, COR¹¹, CO₂R¹¹, SO₂R¹¹, and CONR¹¹R¹²;

R² and R³ each independently is selected from the group of hydrogen, C₁–C₆ alkyl, and C₁-C₆ haloalkyl; or

R² and R³ taken together form a cycloalkyl ring of from three to twelve carbons;

R⁴ through R⁷ each independently is selected from the group of hydrogen, F, Cl, Br, CN, OR¹¹, C₁–C₄ alkyl, C₁–C₄ haloalkyl, and C₁–C₄ heteroalkyl; or R⁵ and R⁷ taken together form a bond; or

Filed

Attorney's ocket No.: 18202-020001 / 1088 Amendment & Response

R⁶ and R⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, di-substituted methylidene and carbonyl;

R⁸ through R¹⁰ each independently is selected from the group of hydrogen, F, Cl, Br, I, NO₂, CN, OR¹¹, NR¹¹R¹², SR¹¹, COR¹¹, CO₂R¹¹, CONR¹¹R¹², C₁–C₈ alkyl, C_1-C_8 heteroalkyl, C_1-C_8 haloalkyl, allyl, C_2-C_8 alkenyl and C_2-C_8 alkynyl;

R¹¹ and R¹² each is independently selected from the group of hydrogen, C₁- C_4 alkyl, C_1-C_4 heteroalkyl, and C_1-C_4 haloalkyl;

R¹³ is hydrogen:

R¹⁴, R¹⁵, R¹⁸, R¹⁹, R²⁰ each independently is selected from the group of hydrogen, F, Cl, C₁–C₄ alkyl, and C₁–C₄ haloalkyl;

R¹⁶ and R¹⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, and di-substituted methylidene;

R²¹ is hydrogen; or

R²¹ and R²⁰ taken together form a bond; and

n is 0, 1, 2, or 3;

or a pharmaceutically acceptable salt or prodrug thereof.

27. (Currently amended) A pharmaceutical composition according to claim 17, wherein composition, comprising a pharmaceutically acceptable carrier and a compound of formula:

wherein:

R¹ is selected from the group of hydrogen, C₁-C₄ alkyl, C₁-C₄ haloalkyl, C₁-C₄ heteroalkyl, COR¹¹, CO₂R¹¹, SO₂R¹¹, and CONR¹¹R¹²;

R² and R³ each independently is selected from the group of hydrogen, C₁–C₆ alkyl, and C₁-C₆ haloalkyl; or

R² and R³ taken together form a cycloalkyl ring of from three to twelve carbons;

Attorney's Docket No.: 18202-020001 / 1088
Amendment & Response

R⁴ through R⁷ each independently is selected from the group of hydrogen, F, CI, Br, CN, OR¹¹, C₁–C₄ alkyl, C₁–C₄ haloalkyl, and C₁–C₄ heteroalkyl; or

R⁵ and R⁷ taken together form a bond; or

R⁶ and R⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, di-substituted methylidene and carbonyl;

R⁸ through R¹⁰ each independently is selected from the group of hydrogen, F, CI, Br, I, NO₂, CN, OR¹¹, NR¹¹R¹², SR¹¹, COR¹¹, CO₂R¹¹, CONR¹¹R¹², C₁–C₈ alkyl, C₁–C₈ heteroalkyl, C₁–C₈ haloalkyl, allyl, C₂–C₈ alkenyl and C₂–C₈ alkynyl;

 R^{11} and R^{12} each is independently selected from the group of hydrogen, C_1 — C_4 alkyl, C_1 — C_4 heteroalkyl, and C_1 — C_4 haloalkyl;

R¹³ is hydrogen;

 R^{14} , R^{15} , R^{17} , R^{20} each independently is selected from the group of hydrogen, F, Cl, C_1 – C_4 alkyl, and C_1 – C_4 haloalkyl;

R¹⁶ and R¹⁸ taken together form a bond when n is 1; or

R¹⁶ and R¹⁹ taken together form a bond when n is 0;

R²¹ is hydrogen; and

n is 0, 1, 2, or 3;

or a pharmaceutically acceptable salt or prodrug thereof.

- 28. (Currently amended) A method of treating an individual having a condition mediated by a progesterone receptor receptor, comprising administering to said individual a pharmaceutically effective amount of a compound according to any one of claims 4 44, 45, 46, 12 or 14 and thereby treating said individual having a condition mediated by a progesterone receptor.
 - 29. (Cancelled).
- 30. (Currently amended) A method of treating an individual having a condition mediated by a progesterone receptor receptor, comprising administering to said individual a pharmaceutically effective amount of a compound represented by formula (II):

Applicant : Lin Zhi et al.

Serial No.: 10/684,229 Filed: October 10, 2003 Attorney's Bocket No.: 18202-020001 / 1088
Amendment & Response

wherein:

 R^2 and R^3 each independently is selected from the group of hydrogen, C_1 – C_4 alkyl, and C_1 – C_4 haloalkyl;

 R^6 is selected from the group of hydrogen, F, Cl, Br, CN, OR^{11} , C_1 – C_4 alkyl, and C_1 – C_4 haloalkyl;

 R^8 and R^{10} each independently is selected from the group of hydrogen, F, Cl, Br, CN, OR^{11} , $NR^{11}R^{12}$, SR^{11} , COR^{11} , C_1 – C_4 alkyl, C_1 – C_4 heteroalkyl, C_1 – C_4 haloalkyl, allyl, and C_2 – C_4 alkenyl;

 R^{11} and R^{12} each is independently selected from the group of hydrogen, C_1 – C_4 alkyl, C_1 – C_4 heteroalkyl, and C_1 – C_4 haloalkyl;

R¹⁴, R¹⁵, R¹⁸, R²², R²³, R²⁴ each independently is selected from the group of hydrogen, F, Cl, OR¹¹, C₁–C₄ alkyl, C₁–C₄ haloalkyl, and C₁–C₄ heteroalkyl;

R²², R²³, R²⁴ together consists of not more than 3 carbon atoms;

R¹⁶ taken together with one of R¹⁴, R¹⁸, and R²² form a bond or "–O–" bridge; n is 0, 1, 2, or 3;

or a pharmaceutically acceptable salt or prodrug thereof;

and thereby treating said individual having a condition mediated by a progesterone receptor.

- 31. (Original) A method according to claim 28, wherein said condition is selected from the group of dysfunctional uterine bleeding, dysmenorrhea, endometriosis, leiomyomas (uterine fibroids), hot flushes, mood disorders, meningiomas, hormone-dependent cancers and female osteoporosis.
- 32. (Original) A method according to claim 28, wherein said condition is alleviated with female hormone replacement therapy.

Attorney's Bocket No.: 18202-020001 / 1088
Amendment & Response

33. (Currently amended) A method of modulating fertility in an individual individual, comprising administering to said individual a pharmaceutically effective amount of a compound according to any one of claims 4 44, 45, 46, 12 or 14 and thereby modulating fertility in said individual.

- 34. (Currently amended) A method of providing contraception to an individual individual, comprising administering to said individual a pharmaceutically effective amount of a compound according to any one of claims 4 44, 45, 46, 12 or 14 and thereby providing contraception to said individual.
- 35. (Currently amended) A method of modulating a progesterone receptor in an individual individual, comprising administering to said individual a compound according to any one of claims 4 44, 45, 46, 12, or 14 in an amount effective to modulate a progesterone receptor and thereby modulating a progesterone receptor in said individual.
- 36. (Original) A method according to claim 35, wherein said modulation is activation.
- 37. (Original) A method according to claim 36, wherein said compound provides at least 50% maximal activation of the progesterone receptor at a concentration of less than 100 nM.
- 38. (Original) A method according to claim 36, wherein said compound provides at least 50% maximal activation of the progesterone receptor at a concentration of less than 50 nM.
- 39. (Original) A method according to claim 36, wherein said compound provides at least 50% maximal activation of the progesterone receptor at a concentration of less than 20 nM.
- 40. (Original) A method according to claim 36, wherein said compound provides at least 50% maximal activation of the progesterone receptor at a concentration of less than 10 nM.
- 41. (Currently amended) A method of treating <u>hormone-dependent</u> cancer, comprising administering to a patient in need thereof an effective amount of a compound according to any one of claims 1 <u>44</u>, <u>45</u>, <u>46</u>, 12 or 14.

Attorney's Bocket No.: 18202-020001 / 1088
Amendment & Response

Applicant : Lin Zhi *et al*.

Serial No. : 10/684,229

Filed : October 10, 2003

42. (Original) A method according to claim 41, wherein said cancer is selected from the group of ovarian cancer, breast cancer, endometrium cancer and prostate cancer.

- 43. (Currently amended) A method of determining the presence of a progesterone receptor (PR) in a cell or cell extract extract, comprising:
- (a) labeling a compound according to of any one of claims 4 44, 45, 46, 12 or 14;
 - (b) contacting the cell or cell extract with said the labeled compound; and
- (c) testing the contracted contacted cell or cell extract to determine the presence of progesterone receptor detect label and thereby determining the presence of a progesterone receptor (PR) in the cell or cell extract.
 - 44. (New) A compound of the formula:

wherein:

R¹ is selected from the group of hydrogen, C₁–C₄ alkyl, C₁–C₄ haloalkyl, C₁–C₄ heteroalkyl, COR¹¹, CO₂R¹¹, SO₂R¹¹, and CONR¹¹R¹²;

 R^2 and R^3 each independently is selected from the group of hydrogen, C_1 – C_6 alkyl, and C_1 – C_6 haloalkyl; or

R² and R³ taken together form a cycloalkyl ring of from three to twelve carbons;

 R^4 through R^7 each independently is selected from the group of hydrogen, F, Cl, Br, CN, QR^{11} , Q_1-Q_4 alkyl, Q_1-Q_4 haloalkyl, and Q_1-Q_4 heteroalkyl; or

R⁵ and R⁷ taken together form a bond; or

R⁶ and R⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, di-substituted methylidene and carbonyl;

 R^8 through R^{10} each independently is selected from the group of hydrogen, F, CI, Br, I, NO₂, CN, OR¹¹, NR¹¹R¹², SR¹¹, COR¹¹, CO₂R¹¹, CONR¹¹R¹², C₁–C₈ alkyl, C₁–C₈ heteroalkyl, C₁–C₈ haloalkyl, allyl, C₂–C₈ alkenyl and C₂–C₈ alkynyl;

 R^{11} and R^{12} each is independently selected from the group of hydrogen, C_1 – C_4 alkyl, C_1 – C_4 heteroalkyl, and C_1 – C_4 haloalkyl;

R¹³ is hydrogen;

 R^{14} through R^{20} each independently is selected from the group of hydrogen, F, Cl, Br, OR^{11} , C_1 – C_4 alkyl, C_1 – C_4 haloalkyl, and C_1 – C_4 heteroalkyl; or

R¹⁴ and R¹⁵ taken together are selected from the group of methylidene, carbonyl and thiocarbonyl; or

R¹⁶ and R¹⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, di-substituted methylidene, carbonyl and thiocarbonyl; or

R¹⁴ and R¹⁶ taken together form a bond or "-O-" bridge; or

R¹⁶ and R¹⁸ taken together form a bond when n is 1; or

R¹⁶ and R¹⁹ taken together form a bond when n is 0;

R²¹ is hydrogen; or

R²¹ and R²⁰ taken together form a bond;

n is 0, 1, 2, or 3;

or a pharmaceutically acceptable salt or prodrug thereof.

45. (New) A compound of the formula:

wherein:

R¹ is selected from the group of hydrogen, C₁–C₄ alkyl, C₁–C₄ haloalkyl, C₁–C₄ heteroalkyl, COR¹¹, CO₂R¹¹, SO₂R¹¹, and CONR¹¹R¹²;

 R^2 and R^3 each independently is selected from the group of hydrogen, C_1 – C_6 alkyl, and C_1 – C_6 haloalkyl; or

Applicant: Lin Zhi et al.
Serial No.: 10/684,229

Serial No.: 10/684,229
Filed: October 10, 2003

Attorney's Bocket No.: 18202-020001 / 1088
Amendment & Response

R² and R³ taken together form a cycloalkyl ring of from three to twelve carbons;

R⁴ through R⁷ each independently is selected from the group of hydrogen, F,

CI, Br, CN, OR^{11} , C_1 – C_4 alkyl, C_1 – C_4 haloalkyl, and C_1 – C_4 heteroalkyl; or

R⁵ and R⁷ taken together form a bond; or

R⁶ and R⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, di-substituted methylidene and carbonyl;

 R^8 through R^{10} each independently is selected from the group of hydrogen, F, CI, Br, I, NO₂, CN, OR¹¹, NR¹¹R¹², SR¹¹, COR¹¹, CO₂R¹¹, CONR¹¹R¹², C₁–C₈ alkyl, C₁–C₈ heteroalkyl, C₁–C₈ haloalkyl, allyl, C₂–C₈ alkenyl and C₂–C₈ alkynyl;

 R^{11} and R^{12} each is independently selected from the group of hydrogen, C_1 – C_4 alkyl, C_1 – C_4 heteroalkyl, and C_1 – C_4 haloalkyl;

R¹³ is hydrogen; or

R¹³ and R¹⁴ taken together form a bond;

R¹⁴ through R²⁰ each independently is selected from the group of hydrogen,

F, CI, Br, OR^{11} , C_1 – C_4 alkyl, C_1 – C_4 haloalkyl, and C_1 – C_4 heteroalkyl; or

R¹⁴ and R¹⁵ taken together are selected from the group of methylidene, carbonyl and thiocarbonyl; or

R¹⁶ and R¹⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, di-substituted methylidene, carbonyl and thiocarbonyl; or

R¹⁴ and R¹⁶ taken together form a bond or "-O-" bridge;

R¹⁶ and R¹⁹ taken together form a bond when n is 0;

R²¹ is hydrogen; or

R²¹ and R²⁰ taken together form a bond;

n is 0, 1, 2, or 3;

or a pharmaceutically acceptable salt or prodrug thereof.

Applicant: Lin Zhi et al.

Serial No. : 10/684,229
Filed : October 10, 2003

Attorney's Bocket No.: 18202-020001 / 1088

Amendment & Response

46. (New) A compound of the formula:

wherein:

R¹ is selected from the group of hydrogen, C₁–C₄ alkyl, C₁–C₄ haloalkyl, C₁–C₄ heteroalkyl, COR¹¹, CO₂R¹¹, SO₂R¹¹, and CONR¹¹R¹²;

 R^2 and R^3 each independently is selected from the group of hydrogen, C_1 – C_6 alkyl, and C_1 – C_6 haloalkyl; or

R² and R³ taken together form a cycloalkyl ring of from three to twelve carbons;

 R^4 through R^7 each independently is selected from the group of hydrogen, F, CI, Br, CN, OR^{11} , C_1 – C_4 alkyl, C_1 – C_4 haloalkyl, and C_1 – C_4 heteroalkyl; or

R⁵ and R⁷ taken together form a bond; or

R⁶ and R⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, di-substituted methylidene and carbonyl;

 R^8 through R^{10} each independently is selected from the group of hydrogen, F, CI, Br, I, NO₂, CN, OR¹¹, NR¹¹R¹², SR¹¹, COR¹¹, CO₂R¹¹, CONR¹¹R¹², C₁–C₈ alkyl, C₁–C₈ heteroalkyl, C₁–C₈ haloalkyl, allyl, C₂–C₈ alkenyl and C₂–C₈ alkynyl;

 R^{11} and R^{12} each is independently selected from the group of hydrogen, C_1 – C_4 alkyl, C_1 – C_4 heteroalkyl, and C_1 – C_4 haloalkyl;

R¹³ is hydrogen; or

R¹³ and R¹⁴ taken together form a bond;

 R^{14} through R^{20} each independently is selected from the group of hydrogen, F, Cl, Br, OR^{11} , C_1 – C_4 alkyl, C_1 – C_4 haloalkyl, and C_1 – C_4 heteroalkyl; or

R¹⁴ and R¹⁵ taken together are selected from the group of methylidene, carbonyl and thiocarbonyl; or

Attorney's Bocket No.: 18202-020001 / 1088
Amendment & Response

R¹⁶ and R¹⁷ taken together are selected from the group of methylidene, monosubstituted methylidene, di-substituted methylidene, carbonyl and thiocarbonyl; or

R¹⁴ and R¹⁶ taken together form a bond or "-O-" bridge; or

R¹⁶ and R¹⁸ taken together form a bond when n is 1; or

R¹⁶ and R¹⁹ taken together form a bond when n is 0;

R²¹ is hydrogen;

n is 0, 1, 2, or 3;

or a pharmaceutically acceptable salt or prodrug thereof.

47. (New) A pharmaceutical composition, comprising a pharmaceutically acceptable carrier and a compound of any one of claims 44-46.